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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/668,912	09/23/2003	Mark Gurvich	PWV1.PAU.54	2534

7590 06/24/2005
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EXAMINER

NGUYEN, KHANH V

ART UNIT PAPER NUMBER

2817

DATE MAILED: 06/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/668,912	Applicant(s) GURVICH ET AL.	
	Examiner Khanh V. Nguyen	Art Unit 2817	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 April 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 4,5,7-21 and 23-26 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 18-21 and 23-26 is/are allowed.
- 6) ☒ Claim(s) 4,5,9,11-15 and 17 is/are rejected.
- 7) ☒ Claim(s) 7,8,10 and 16 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 4, 5, 9 are rejected under 35 U.S.C. 102(e) as being anticipated by Gurvich et al. (6,794,933).

Regarding claims 4, 9, Gurvich et al. (Fig. 7) disclose a feedforward amplifier comprising: an RF signal is applied to input (12); the RF input signal is split at coupler (30); the RF signal is communicating through upper and lower legs and combined at the output coupler (25/42); a pilot detector (115) can be read as monitoring the combined signal from coupler (25/42) as a selected point; wherein the RF signal is facilitated/inhibited from a signal cancellation loop delay (32) to an error cancellation loop delay adjuster (211) to facilitate alignment as claimed.

Regarding claim 5, wherein no breakpoints/switch is seen and therefore the RF signal is continuously communicated through both legs.

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 11, 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Long (5,831,478).

Long (Fig. 2) discloses a feedforward amplifier comprising: an RF signal is applied to input (12); the RF input signal is split at coupler (14); the RF signal is communicating through upper and lower legs and combined at the output coupler (62); a signal detector (222) can be read as monitoring the combined signal from coupler (62) as a selected point; wherein the RF signal inputted comprises a swept frequency signal from an oscillator (294), which can be read as a network analyzer.

Claim 13 is rejected under 35 U.S.C. 102(b) as being anticipated Anvari (5,610,554).

Anvari (Fig. 1) discloses a feedforward amplifier comprising: an RF signal is applied to input (100); the RF input signal is split at coupler (101); the RF signal is communicating through upper and lower legs and combined at the output coupler (117); wherein the combined signal is detected and passed to switch (202) and an external control (CONT) for control the switch to select a point which RF signal (110/118) is monitor.

Claim 17 is rejected under 35 U.S.C. 102(b) as being anticipated Gianfortune (5,774,018).

Gianfortune (Fig. 2) discloses a feedforward amplifier comprising: an RF signal via source (58) is applied to input (28); the RF input signal is split at coupler (59); the RF

signal is communicating through upper and lower legs and combined at the output coupler (66); a controller (94) for monitoring the combined signal from coupler (66) as a selected point and controlling the RF input signal via terminal (96).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 14, 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anvari.

Anvari discloses the claimed invention except for the particular control claimed. However, such controller as claimed are well known in the art and utilizing such

controller would have been obvious and wherein the control can be a personal computer or an autocontroller as desired.

Allowable Subject Matter

Claims 7, 8, 10, 16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 18-21, 23-26 are allowed.

Claims 7, 8, 10, 16 call for, among others, a switch having the function thereof; and a method of terminating an output of the RF power amplifier.

Claims 18-20 call for, among others, methods of measuring the complex gains along the respective paths.

Claims 21, 23-26 call for, among others, a switch and terminator/network analyzer.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh V. Nguyen whose telephone number is (571) 272-1767. The examiner can normally be reached from 8:00 AM - 3:30 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (571) 272-1769. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Art Unit: 2817

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read 'Khanh Van Nguyen', with a long horizontal flourish extending to the right.

KHANH VAN NGUYEN
PRIMARY EXAMINER
Art Unit: 2817